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Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No 03 Yelahanka Satellite Town Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	10 set /31-100 cum	318.75	20	20

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/12/2019

Lab ID	:	CP-2020-08-26-53
Project Name	:	Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/182/2019-20
Date of Receipt	:	27-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	150.43 X 150.60 X 151.54	22655	8.771	430.2	19.0	18.4
2	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	149.58 X 150.82 X 149.90	22560	8.180	407.4	18.1	
3	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	149.38 X 151.45 X 151.04	22624	8.063	407.9	18.0	

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-53** **Date: 02/12/2019**

Project Name : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/182/2019-20

Date of Receipt : 27-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	150.72 X 149.18 X 149.77	22484	8.771	423.7	18.8	18.7
2	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	151.91 X 151.13 X 149.78	22959	8.180	423.7	18.5	
3	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	151.36 X 149.24 X 150.02	22589	8.063	425.4	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-26-53

Date: 05/12/2019

Project Name : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/182/2019-20

Date of Receipt : 30-11-19

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	28/11/2019	05/12/2019	149.61 X 151.65 X 151.85	22689	8.771	428.7	18.9	18.7
2	Culvert Bottom Slab Concrete	M20	28/11/2019	05/12/2019	150.38 X 151.40 X 149.51	22768	8.180	418.1	18.4	
3	Culvert Bottom Slab Concrete	M20	28/11/2019	05/12/2019	150.10 X 151.66 X 149.00	22765	8.063	426.8	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-26-53

Date: 09/12/2019

Project Name : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/182/2019-20

Date of Receipt : 04-12-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	02/12/2019	09/12/2019	149.45 X 151.88 X 150.79	22698	8.771	428.7	18.9	18.6
2	Culvert Side Wall Concrete	M20	02/12/2019	09/12/2019	149.48 X 151.50 X 149.12	22646	8.180	424.6	18.8	
3	Culvert Side Wall Concrete	M20	02/12/2019	09/12/2019	149.84 X 149.48 X 149.50	22398	8.063	404.4	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2020-08-26-53**

Project Name : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division

Date: 28/11/2019

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/182/2019-20

Date of Receipt : 23-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	21/11/2019	28/11/2019	150.99 X 149.89 X 150.02	22632	8.771	410.0	18.1	18.2
2	Drain Bottom Slab Concrete	M20	21/11/2019	28/11/2019	149.37 X 151.15 X 151.54	22579	8.180	414.8	18.4	
3	Drain Bottom Slab Concrete	M20	21/11/2019	28/11/2019	150.49 X 150.18 X 149.05	22601	8.063	408.5	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-53** **Date: 28/11/2019**

Project Name : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/182/2019-20

Date of Receipt : 23-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	21/11/2019	28/11/2019	150.21 X 149.87 X 151.08	22513	8.771	415.2	18.4	18.6
2	Drain Bottom Slab Concrete	M20	21/11/2019	28/11/2019	149.55 X 151.26 X 151.56	22622	8.180	419.6	18.5	
3	Drain Bottom Slab Concrete	M20	21/11/2019	28/11/2019	151.13 X 149.23 X 150.11	22553	8.063	421.0	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-08-26-53 **Date: 19/12/2019**

Name : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division

gency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/182/2019-20

Date of Receipt : 23-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	21/11/2019	19/12/2019	151.36 X 151.98 X 149.43	23005	8.080	534.2	23.2	23.1
2	Drain Bottom Slab Concrete	M20	21/11/2019	19/12/2019	151.70 X 150.27 X 149.54	22796	8.685	506.3	22.2	
3	Drain Bottom Slab Concrete	M20	21/11/2019	19/12/2019	150.69 X 151.50 X 151.01	22829	8.850	547.5	24.0	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಯಲಹಂಕ ಉಪವಿಭಾಗ ಉಪವಿಭಾಗ, ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-53** **Date: 28/11/2019**

Project Name : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/182/2019-20

Date of Receipt : 23-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	21/11/2019	28/11/2019	150.91 X 151.25 X 150.06	22824	8.771	413.3	18.1	18.5
2	Drain Bottom Slab Concrete	M20	21/11/2019	28/11/2019	149.94 X 151.79 X 149.74	22760	8.180	426.5	18.7	
3	Drain Bottom Slab Concrete	M20	21/11/2019	28/11/2019	149.71 X 151.99 X 150.27	22754	8.063	427.8	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/12/2019

Lab ID : CP-2020-08-26-53

Project Name : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/182/2019-20

Date of Receipt : 27-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	150.95 X 150.40 X 150.69	22704	8.771	429.6	18.9	18.6
2	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	151.15 X 151.08 X 151.79	22836	8.180	432.7	18.9	
3	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	150.98 X 149.06 X 151.00	22504	8.063	405.4	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-26-53 **Date: 02/12/2019**

Project Name : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/182/2019-20

Date of Receipt : 27-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	149.92 X 149.31 X 151.76	22385	8.771	422.3	18.9	18.7
2	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	150.32 X 150.87 X 149.61	22679	8.180	416.2	18.4	
3	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	149.10 X 151.24 X 149.59	22550	8.063	426.0	18.9	

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-08-26-53**

Date: 09-12-19

Project Name : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/182/2019-20

Date of Receipt : 05-12-19

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/12/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-26-53**
		Date: 13-11-19
Project Name	:	Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer Reference	:	BBMP/EE/YNK.D/W.O/182/2019-20
Date of Receipt	:	11-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	208	208	4.2	95.8	90-100
3	10 mm	2787	2995	59.9	40.1	25-55
4	4.75 mm	1804	4799	96.0	4.0	0-10
5	Pan	201	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-08-26-53 **Date: 15-11-19**

Project Name : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/182/2019-20

Date of Receipt : 11-11-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 12-11-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.79	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.9	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-26-53** **Date: 15-11-19**
Project Name	:	Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/182/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	178	178	1.2	98.8	90-100
3	20 mm	7145	7323	48.8	51.2	30-70
4	10 mm	5699	13022	86.8	13.2	10-35
5	4.75 mm	1705	14727	98.2	1.8	0-5
6	Pan	273	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-08-26-53

Date: 13-11-19

Project Name : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer Reference : BBMP/EE/YNK.D/W.O/182/2019-20

Date of Receipt : 11-11-19

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	208	208	4.2	95.8	90-100
3	10 mm	2787	2995	59.9	40.1	25-55
4	4.75 mm	1804	4799	96.0	4.0	0-10
5	Pan	201	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-08-26-53** **Date: 13-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.45	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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